

What is claimed is:

1. A process for producing an ammonia-containing gaseous product from aqueous ammonia comprising the steps of:
 - a) transporting concentrated aqueous ammonia from a source location to a location of use remote from said source location;
 - b) vaporizing a portion of ammonia from said concentrated aqueous ammonia to produce an ammonia-containing gaseous product and a dilute aqueous ammonia remainder; and
 - c) transporting at least a portion of said dilute aqueous ammonia remainder to a return location.
2. The process of claim 1 wherein said source location and said return location are the same.
3. The process of claim 1 wherein said source location and said return location are different.
4. The process of claim 1 comprising the step of combining at least a portion of said dilute aqueous ammonia remainder with ammonia to form concentrated aqueous ammonia suitable for use in the process of claim 1.
5. The process of claim 4 wherein said combining step is performed at said return location.
6. The process of claim 1 wherein said concentrated aqueous ammonia has a concentration of about 29 wt.% or less.

7. The process of claim 6 wherein said concentrated aqueous ammonia has a concentration of about 19 wt.% or less.
8. The process of claim 1 wherein said dilute aqueous ammonia remainder has an ammonia concentration of about 10 wt.% or less.
9. The process of claim 8 wherein said dilute aqueous ammonia remainder has an ammonia concentration of about 6 wt.% or less.
10. The process of claim 1 wherein said dilute aqueous ammonia remainder has an ammonia concentration of at least about 1 ppm by weight.
11. The process of claim 10 wherein said dilute aqueous ammonia remainder has an ammonia concentration of at least about 10 ppm by weight.
12. The process of claim 1 comprising the step of vaporizing said portion of ammonia from said concentrated aqueous ammonia in a stripper.
13. The process of claim 12 comprising the steps of recovering heat from said dilute aqueous ammonia remainder and exchanging said heat to said concentrated aqueous ammonia.
14. The process of claim 12 wherein said stripper has an upper liquid surface the process comprises the step of controlling the concentration of ammonia in said ammonia-containing gaseous product by maintaining a substantially constant temperature and a substantially constant

pressure at said upper liquid surface and by controlling the concentration of said concentrated aqueous ammonia.

15. The process of claim 14 comprising the step of maintaining said concentration of ammonia in said ammonia-containing gaseous product substantially constant by maintaining the concentration of ammonia in said concentrated aqueous ammonia substantially constant.

16. The process of claim 12 comprising the step of controlling the ammonia concentration of said ammonia-containing gaseous product by controlling the temperature and pressure of said dilute aqueous ammonia remainder.

17. The process of claim 16 comprising the step of maintaining said ammonia concentration of said ammonia-containing gaseous product substantially constant by maintaining a substantially constant temperature and a substantially constant pressure in said dilute aqueous ammonia remainder.

18. The process of claim 12 comprising the step of controlling the ammonia concentration of said ammonia-containing gaseous product by controlling the temperature of said dilute aqueous ammonia remainder and the pressure at said upper liquid surface.

19. The process of claim 1 comprising the step of vaporizing said portion of ammonia from said concentrated aqueous ammonia in a distillation column.

20. The process of claim 1 comprising the step of vaporizing said portion of ammonia from said concentrated aqueous ammonia in a single stage vaporizer.

21. The process of claim 1 comprising the step of feeding said concentrated aqueous ammonia to a vaporizer at a rate controlled by a rate of ammonia demand.

22. The process of claim 21 comprising the step of controlling said feed rate of concentrated aqueous ammonia to said vaporizer based on a measured temperature within said vaporizer.

23. The process of claim 1 comprising the step of condensing at least a portion of said ammonia-containing gaseous product to produce a super-concentrated aqueous ammonia product.